

## Dirichlet Problem for a fourth-order equation

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### Abstract

In a rectangular domain on the plane, we consider the Dirichlet problem for a fourth order pseudoparabolic equation with double differentiation with respect to each of the variables. To solve the problem, we reduce it to a system of Fredholm equations, whose solvability is established under additional conditions on the coefficients of the equation by the method of a priori estimates. © 2011 Pleiades Publishing, Ltd.

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